

Abstract of the Disclosure

A testing system includes a hand-held transmitter that plugs into a receptacle electrically coupled to a selected branch circuit. The transmitter includes a circuit effective to test an arc fault circuit interrupter electrically coupled to the branch circuit by

5 creating a first pulse on the branch circuit that is effective to trip the arc fault circuit interrupter. The transmitter can perform at least one additional test including: determining whether the receptacle is wired properly; determining a location of a circuit interrupting device electrically coupled to the branch circuit by creating a second pulse on the branch circuit that can be sensed by a receiver located proximately to the respective circuit

10 interrupting device and broadly tuned about a frequency of the second pulse; and testing a ground fault circuit interrupter electrically coupled to the branch circuit by creating a third pulse on the branch circuit that is effective to trip the ground fault circuit interrupter.